

10/533799

32.US2.ST25.txt
SEQUENCE LISTING

JC17 Rec'd PCT/PTO 04 MAY 2005

<110> Arena Pharmaceuticals, Inc.
Semple, Graeme
Skinner, Philip
Cherrier, Martin
Webb, Peter
Tamura, Susan

<120> BENZOTRIAZOLES AND METHODS OF PROPHYLAXIS OR TREATMENT OF
METABOLIC-RELATED DISORDERS THEREOF

<130> 32.US2.PCT

<150> 60/423,819

<151> 2002-11-05

<150> PCT/US03/035427

<151> 2003-11-04

<160> 4

<170> PatentIn version 3.2

<210> 1

<211> 1164

<212> DNA

<213> Homo sapien

<400> 1

```
atgaatcggc accatctgca ggatcacttt ctggaaatag acaagaagaa ctgctgtgtg      60
ttccgagatg acttcattgc caaggtgttg ccgccgggtgt tggggctgga gtttatcttt      120
gggcttctgg gcaatggcct tgccctgtgg attttctgtt tccacctcaa gtcctggaaa      180
tccagccgga ttttctgtt caacctggca gtagctgact ttctactgat catctgcctg      240
ccgttcgtga tggactacta tgtgcggcgt tcagactgga actttgggga catcccttgc      300
cggctggtgc tcttcatgtt tgccatgaac cgccagggca gcatcatctt cctcacgggtg      360
gtggcggtag acaggtatgt ccgggtgggtc catccccacc acgccctgaa caagatctcc      420
aattggacag cagccatcat ctcttgcctt ctgtggggca tcaactgttg cctaacagtc      480
cacctcctga agaagaagtt gctgatccag aatggccctg caaatgtgtg catcagcttc      540
agcatctgcc ataccttccg gtggcacgaa gctatgttcc tcctggagtt cctcctgccc      600
ctgggcatca tcctgttctg ctccagccaga attatctgga gcctgcggca gagacaaatg      660
gaccggcatg ccaagatcaa gagagccatc accttcatca tggtggtggc catcgtcttt      720
gtcatctgct tccttcccag cgtggttgtg cggatccgca tcttctggct cctgcacact      780
tcgggcacgc agaattgtga agtgatccgc tcggtggacc tggcgttctt tatcactctc      840
agcttcacct acatgaacag catgctggac cccgtggtgt actacttctc cagcccatcc      900
tttcccaact tcttctccac tttgatcaac cgctgcctcc agaggaagat gacaggtgag      960
ccagataata accgcagcac gagcgtcgag ctacaggggg accccaacaa aaccagaggc     1020
```

10/533799

32.US2.ST25.txt JC17 Rec'd PCT/PTO 04 MAY 2005

gctccagagg cgттаатggc caactccggt gagccatgga gcccctctta tctgggcccc 1080
 acctcaaata accattccaa gaaggacat tgtcaccaag aaccagcatc tctggagaaa 1140
 cagttgggct gttgcatcga gtaa 1164

<210> 2
 <211> 387
 <212> PRT
 <213> Homo sapien

<400> 2

Met Asn Arg His His Leu Gln Asp His Phe Leu Glu Ile Asp Lys Lys
 1 5 10 15

Asn Cys Cys Val Phe Arg Asp Asp Phe Ile Ala Lys Val Leu Pro Pro
 20 25 30

Val Leu Gly Leu Glu Phe Ile Phe Gly Leu Leu Gly Asn Gly Leu Ala
 35 40 45

Leu Trp Ile Phe Cys Phe His Leu Lys Ser Trp Lys Ser Ser Arg Ile
 50 55 60

Phe Leu Phe Asn Leu Ala Val Ala Asp Phe Leu Leu Ile Ile Cys Leu
 65 70 75 80

Pro Phe Val Met Asp Tyr Tyr Val Arg Arg Ser Asp Trp Asn Phe Gly
 85 90 95

Asp Ile Pro Cys Arg Leu Val Leu Phe Met Phe Ala Met Asn Arg Gln
 100 105 110

Gly Ser Ile Ile Phe Leu Thr Val Val Ala Val Asp Arg Tyr Phe Arg
 115 120 125

Val Val His Pro His His Ala Leu Asn Lys Ile Ser Asn Trp Thr Ala
 130 135 140

Ala Ile Ile Ser Cys Leu Leu Trp Gly Ile Thr Val Gly Leu Thr Val
 145 150 155 160

His Leu Leu Lys Lys Lys Leu Leu Ile Gln Asn Gly Pro Ala Asn Val
 165 170 175

Cys Ile Ser Phe Ser Ile Cys His Thr Phe Arg Trp His Glu Ala Met
 180 185 190

32.US2.ST25.txt

Phe Leu Leu Glu Phe Leu Leu Pro Leu Gly Ile Ile Leu Phe Cys Ser
 195 200 205

Ala Arg Ile Ile Trp Ser Leu Arg Gln Arg Gln Met Asp Arg His Ala
 210 215 220

Lys Ile Lys Arg Ala Ile Thr Phe Ile Met Val Val Ala Ile Val Phe
 225 230 235 240

Val Ile Cys Phe Leu Pro Ser Val Val Val Arg Ile Arg Ile Phe Trp
 245 250 255

Leu Leu His Thr Ser Gly Thr Gln Asn Cys Glu Val Tyr Arg Ser Val
 260 265 270

Asp Leu Ala Phe Phe Ile Thr Leu Ser Phe Thr Tyr Met Asn Ser Met
 275 280 285

Leu Asp Pro Val Val Tyr Tyr Phe Ser Ser Pro Ser Phe Pro Asn Phe
 290 295 300

Phe Ser Thr Leu Ile Asn Arg Cys Leu Gln Arg Lys Met Thr Gly Glu
 305 310 315 320

Pro Asp Asn Asn Arg Ser Thr Ser Val Glu Leu Thr Gly Asp Pro Asn
 325 330 335

Lys Thr Arg Gly Ala Pro Glu Ala Leu Met Ala Asn Ser Gly Glu Pro
 340 345 350

Trp Ser Pro Ser Tyr Leu Gly Pro Thr Ser Asn Asn His Ser Lys Lys
 355 360 365

Gly His Cys His Gln Glu Pro Ala Ser Leu Glu Lys Gln Leu Gly Cys
 370 375 380

Cys Ile Glu
 385

<210> 3
 <211> 1092
 <212> DNA
 <213> Homo sapien

<400> 3
 atgaatcggc accatctgca ggatcacttt ctggaaatag acaagaagaa ctgctgtgtg 60
 ttccgagatg acttcattgt caagggtgtg ccgccgggtg tggggctgga gtttatcttc 120
 gggcttctgg gcaatggcct tgccctgtgg attttctgtt tccacctcaa gtcctggaaa 180
 Page 3

32.US2.ST25.txt

```

tccagccgga ttttcctggt caacctggca gtggctgact ttctactgat catctgcctg 240
cccttcctga tggacaacta tgtgaggcgt tgggactgga agtttgggga catcccttgc 300
cggctgatgc tcttcatggt ggctatgaac cgccagggca gcatcatctt cctcacggtg 360
gtggcggtag acaggtatatt ccgggtgggtc catccccacc acgccctgaa caagatctcc 420
aatcggacag cagccatcat ctcttgccct ctgtggggca tcactattgg cctgacagtc 480
cacctcctga agaagaagat gccgatccag aatggcggtg caaatttggt cagcagcttc 540
agcatctgcc ataccttcca gtggcacgaa gccatgttcc tcctggagtt cttcctgccc 600
ctgggcatca tcctgttctg ctcagccaga attatctgga gcctgcggca gagacaaatg 660
gaccggcatg ccaagatcaa gagagccatc accttcatca tggtggtggc catcgtcttt 720
gtcatctgct tccttcccag cgtgggttggt cggtaccgca tcttctggct cctgcacact 780
tcgggcacgc agaattgtga agtgaccgc tcggtggacc tggcgttctt tatcactctc 840
agcttcacct acatgaacag catgctggac cccgtggtgt actacttctc cagcccatcc 900
tttcccaact tcttctccac tttgatcaac cgctgcctcc agaggaagat gacaggtgag 960
ccagataata accgcagcac gagcgtcgag ctcacagggg accccaacaa aaccagaggc 1020
gctccagagg cgtaaatggc caactccggt gagccatgga gcccctctta tctgggcca 1080
acctctcctt aa 1092

```

```

<210> 4
<211> 363
<212> PRT
<213> Homo sapien

```

```
<400> 4
```

```

Met Asn Arg His His Leu Gln Asp His Phe Leu Glu Ile Asp Lys Lys
1           5           10          15

```

```

Asn Cys Cys Val Phe Arg Asp Asp Phe Ile Val Lys Val Leu Pro Pro
20          25          30

```

```

Val Leu Gly Leu Glu Phe Ile Phe Gly Leu Leu Gly Asn Gly Leu Ala
35          40          45

```

```

Leu Trp Ile Phe Cys Phe His Leu Lys Ser Trp Lys Ser Ser Arg Ile
50          55          60

```

```

Phe Leu Phe Asn Leu Ala Val Ala Asp Phe Leu Leu Ile Ile Cys Leu
65          70          75          80

```

```

Pro Phe Leu Met Asp Asn Tyr Val Arg Arg Trp Asp Trp Lys Phe Gly
85          90          95

```

32.US2.ST25.txt

Asp Ile Pro Cys Arg Leu Met Leu Phe Met Leu Ala Met Asn Arg Gln
100 105 110

Gly Ser Ile Ile Phe Leu Thr Val Val Ala Val Asp Arg Tyr Phe Arg
115 120 125

Val Val His Pro His His Ala Leu Asn Lys Ile Ser Asn Arg Thr Ala
130 135 140

Ala Ile Ile Ser Cys Leu Leu Trp Gly Ile Thr Ile Gly Leu Thr Val
145 150 155 160

His Leu Leu Lys Lys Lys Met Pro Ile Gln Asn Gly Gly Ala Asn Leu
165 170 175

Cys Ser Ser Phe Ser Ile Cys His Thr Phe Gln Trp His Glu Ala Met
180 185 190

Phe Leu Leu Glu Phe Phe Leu Pro Leu Gly Ile Ile Leu Phe Cys Ser
195 200 205

Ala Arg Ile Ile Trp Ser Leu Arg Gln Arg Gln Met Asp Arg His Ala
210 215 220

Lys Ile Lys Arg Ala Ile Thr Phe Ile Met Val Val Ala Ile Val Phe
225 230 235 240

Val Ile Cys Phe Leu Pro Ser Val Val Val Arg Ile Arg Ile Phe Trp
245 250 255

Leu Leu His Thr Ser Gly Thr Gln Asn Cys Glu Val Tyr Arg Ser Val
260 265 270

Asp Leu Ala Phe Phe Ile Thr Leu Ser Phe Thr Tyr Met Asn Ser Met
275 280 285

Leu Asp Pro Val Val Tyr Tyr Phe Ser Ser Pro Ser Phe Pro Asn Phe
290 295 300

Phe Ser Thr Leu Ile Asn Arg Cys Leu Gln Arg Lys Met Thr Gly Glu
305 310 315 320

Pro Asp Asn Asn Arg Ser Thr Ser Val Glu Leu Thr Gly Asp Pro Asn
325 330 335

Lys Thr Arg Gly Ala Pro Glu Ala Leu Met Ala Asn Ser Gly Glu Pro

340 32.US2.ST25.txt 350
345

Trp Ser Pro Ser Tyr Leu Gly Pro Thr Ser Pro
355 360